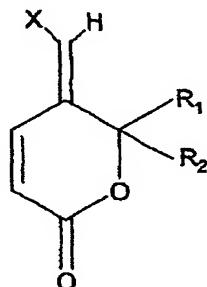


CLAIMS

1. A compound corresponding to formula (I) :



I

5

in which

X represents chlorine, bromine or iodine, and

R₁ and R₂ represent, each independently of the other, a hydrogen atom, an alkyl, cycloalkyl or alkylene group,

10 which is linear or branched, containing from 1 to 20 carbon atoms, optionally substituted with a hydroxyl, amino, ether or halogen group, or R₁ and R₂ form together a 5-, 6-, 7- or 8-membered ring, said ring being optionally substituted with a hydroxyl, amino,

15 ether or halogen group,

including its isomers, its enantiomers, its diastereoisomers, and mixtures thereof.

2. The compound of formula (I) as claimed in claim 1,
20 characterized in that X represents chlorine, bromine or iodine, and R₁ and R₂ represent, each independently of the other, a hydrogen atom, an alkyl or alkylene group, which is linear or branched, containing from 1 to 20 carbon atoms, optionally substituted with an ether or
25 halogen group, or R₁ and R₂ form together a 5-, 6-, 7- or 8-membered ring, said ring being optionally substituted with an ether or halogen group.

3. The compound of formula (I) as claimed in claim 1
30 or 2, characterized in that X represents iodine.

4. The compound of formula (I) as claimed in any one of claims 1 to 3, characterized in that R_1 and R_2 each represent independently of each other a hydrogen atom, 5 a methyl, ethyl, propyl or butyl group.

5. The compound of formula (I) as claimed in any one of claims 1 to 4, characterized in that R_1 and R_2 each represent a methyl group.

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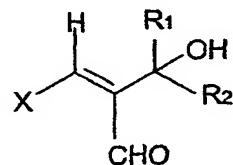
6. The compound of formula (I) as claimed in any one of claims 1 to 5, characterized in that it is iodomethylene-dimethyl-dihydropyranone.

15

7. The compound of formula (I) as claimed in any one of claims 1 to 6, characterized in that it is the isomer E-iodomethylene-dimethyl-dihydropyranone.

20

8. A method for preparing a compound of formula (I) as claimed in any one of claims 1 to 7, characterized in that a Horner-Emmons reaction is carried out by reacting an aldehyde of formula (IV)



IV

25

in which the meanings of X, R₁ and R₂ are those defined for the compound of formula (I) as claimed in claim 1 or 2,

with a phosphonate such as methyl [bis(2,2,2-trifluoroethyl)phosphinoyl]acetate, followed by cyclization.

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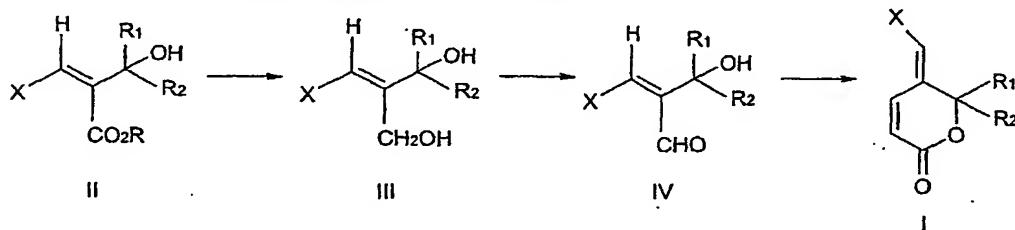
9. The method as claimed in claim 8, characterized in that the preparation of the compound of formula (I) is carried out in the presence of a base such as potassium carbonate and a crown ether such as the crown ether 18-

crown-6.

10. The method as claimed in claim 8 or 9,
characterized in that the preparation of the compound
5 of formula (I) from the compound of formula (IV) is
preceded by the following steps:

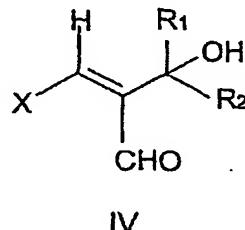
10 i) a compound of formula (II) is first of all reacted with a reducing agent such as lithium aluminum hydride, resulting in the formation of the corresponding primary alcohol (III), and then

ii) the compound of formula (III) is reacted with an oxidizing agent such as manganese dioxide to give the corresponding aldehyde (IV)



15 in which the meanings of X, R₁ and R₂ are those defined above for the compound of formula (I) as claimed in claim 1 or 2, and R represents a linear alkyl group containing from 1 to 5 carbon atoms, such as a methyl 20 or ethyl group.

11. A compound corresponding to formula (IV):



in which the meanings of X , R_1 and R_2 are those defined
25 for the compound of formula (I) as claimed in claim 1
or 2.

including its isomers, its enantiomers, its

diastereoisomers, and mixtures thereof.

12. A medicament, characterized in that it consists of a compound of formula (I) as claimed in any one of 5 claims 1 to 7.

13. A pharmaceutical composition, characterized in that it comprises a compound of formula (I) as claimed in any one of claims 1 to 7, in combination with any 10 appropriate excipient.

14. The composition as claimed in claim 13, characterized in that it is intended to be administered by intravenous injection.

15

15. The use of a compound of formula (I) as claimed in any one of claims 1 to 7, for the preparation of a medicament intended for treating cancer.